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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/598,033	08/16/2006	Changling Liu	034226 M 003	9375	
441 7550 682120008 SMITH, GAMBRELL & RUSSELL 1130 CONNECTICUT AVENUE, N.W., SUITE 1130			EXAM	EXAMINER	
			ZAREK, PAUL E		
WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER	
			4161		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/598.033 LIU ET AL. Office Action Summary Examiner Art Unit PAUL ZAREK 4161 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) _____ is/are rejected 7) Claim(s) is/are objected to. 8) Claim(s) 1-9 are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/S5/08)
Paper No(s)/Mail Date ______.

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-5, and 7, drawn to a derivative of formula I wherein A_1 , A_2 , and A_3 are C, X_1 is CH, X_2 is O or S, and X_3 is O or S.

Group II, claim(s) 1-5, and 7, drawn to a derivative of formula I wherein A_1 , A_2 , and A_3 are C, X_1 is CH, X_2 is O or S, and X_3 is NR_8 .

Group III, claim(s) 1-5, and 7, drawn to a derivative of formula I wherein A_1 , A_2 , and A_3 are C, X_1 is CH, X_2 is NR_7 , and X_3 is O or S.

Group IV, 1-5, and 7, drawn to a derivative of formula I wherein A_1 , A_2 , and A_3 are C, X_1 is N, X_2 is O or S, and X_3 is O or S.

Group V, claim(s) 1-5, and 7, drawn to a derivative of formula I wherein one of A_1 , A_2 , or A_3 is N, X_1 is CH, X_2 is O or S, and X_3 is O or S.

Group VI, claim(s) 1-5, and 7, drawn to a derivative of formula I wherein A_1 , A_2 , and A_3 are C, X_1 is CH, X_2 is NR_7 , and X_3 is NR_8 .

Group VII, claim(s) 1-5, and 7, drawn to a derivative of formula I wherein A_1 , A_2 , and A_3 are C, X_1 is N, X_2 is O or S, and X_3 is NR_8 .

Group VIII, claim(s) 1-5, and 7, drawn to a derivative of formula I wherein one of A_1 , A_2 , or A_3 is N, X_1 is CH, X_2 is O or S, and X_3 is NR_8 .

Group IX, claim(s) 1-5, and 7, drawn to a derivative of formula I wherein A_1 , A_2 , and A_3 are C, X_1 is N, X_2 is NR_7 , and X_3 is O or S.

Group X, claim(s) 1-5, and 7, drawn to a derivative of formula I wherein one of A_1 , A_2 , or A_3 is N, X_1 is CH, X_2 is NR_7 , and X_3 is O or S.

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Group XI, claim(s) 1-5, and 7, drawn to a derivative of formula I wherein one of A_1 , A_2 , or A_3 is N, X_1 is N, X_2 is O or S, and S is O or S.

Group XII, claim(s) 1-5, and 7, drawn to a derivative of formula I wherein A_1 , A_2 , and A_3 are C, X_1 is N, X_2 is NR_7 , and X_3 is NR_8 .

Group XIII, claim(s) 1-5, and 7, drawn to a derivative of formula I wherein one of A_1 , A_2 , or A_3 is N, X_1 is CH, X_2 is NR_7 , and X_3 is NR_8 .

Group XIV, claim(s) 1-5, and 7, drawn to a derivative of formula I wherein one of A_1 , A_2 , or A_3 is N, X_1 is N, X_2 is O or S, and X_3 is NR_8 .

Group XV, claim(s) 1-5, and 7, drawn to a derivative of formula I wherein one of A_1 , A_2 , or A_3 is N, X_1 is N, X_2 is NR_7 , and X_3 is O or S.

Group XVI, claim(s) 1-5, and 7, drawn to a derivative of formula I wherein one of A_1 , A_2 , or A_3 is N, X_1 is N, X_2 is NR_7 , and X_3 is NR_3 .

Group XVII, claim(s) 6, drawn to a method of making formula I.

Group XVIII, claim(s) 8 and 9, drawn to a method of using formula I.

NOTE: Examiner is not sure what is encompassed by Claims 8 and 9. Examiner interprets Claims 8 and 9 as methods of using formula, and have been restricted accordingly.

2. The inventions listed as Groups I-XVIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Kirstgen, et al. (US Patent No. 6,031,110, 2000) teaches a species encompassed by the claimed genus, wherein:

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A_1,A_2, and A_3 are CR_9,CR_{10}, and CR_{11}, respectively; X_1 is N; X_2 is NH; X_3 is N; X_1 is N; X_3 is N; R_1,R_2,R_3,R_4,R_9,R_{10}, and R_{11} are all H; R_3 is chloro; and, R_6 is methyl (col 46, Example 7).
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The compound taught in Kirgsten, et al., possesses fungicidal and insecticidal properties. Therefore, the claimed invention lacks a special technical feature.

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3. This application contains claims directed to more than one species of the generic

invention. These species are deemed to lack unity of invention because they are not so linked as

to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

A derivative of formula I wherein A₁, A₂, A₃, R₁, R₂, R₃, R₄, R₅, R₆, R₉, R₁₀, R₁₁, X₁, X₂,

and X3 are specified.

Applicant is required, in reply to this action, to elect a single species to which the claims

shall be restricted if no generic claim is finally held to be allowable. The reply must also identify

the claims readable on the elected species, including any claims subsequently added. An

argument that a claim is allowable or that all claims are generic is considered non-responsive

unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of

claims to additional species which are written in dependent form or otherwise include all the

limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after

the election, applicant must indicate which are readable upon the elected species. MPEP

§ 809.02(a).

4. The claims are deemed to correspond to the species listed above in the following manner:

Inventions I-XVI: Claims 2-5

The following claim(s) are generic:

Inventions I-XVI: Claims 1 and 7

Invention XVII: Claim 6

Invention XVIII: Claims 8 and 9

5. The species listed above do not relate to a single general inventive concept under PCT

Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special

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technical features for the following reasons: Kirstgen, et al. (US Patent No. 6,031,110, 2000) teaches a species encompassed by the claimed genus, wherein:

```
A_1, A_2, and A_3 are CR_9, CR_{10}, and CR_{11}, respectively; X_1 is N; X_2 is NH; X_3 is NH; X_3 is N; R_1, R_2, R_3, R_4, R_9, R_{10}, and R_{11} are all H; R_3 is chloro; and, R_4 is methyl (col 46, Example 7).
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The compound taught in Kirgsten, et al., possesses fungicidal and insecticidal properties. Therefore, the claimed invention lacks a special technical feature.

6. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

- 7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 8. The Examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of

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the allowable product claim will be considered for rejoinder. <u>All</u> claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

- 9. In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01
- Any inquiry concerning this communication or earlier communications from the examiner should be directed to PAUL ZAREK whose telephone number is (571) 270-5754. The examiner can normally be reached on Monday-Thursday, 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, PATRICK NOLAN can be reached on (571) 272-0847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PEZ

/Patrick J. Nolan/ Supervisory Patent Examiner, Art Unit 4161